

FIG. 1

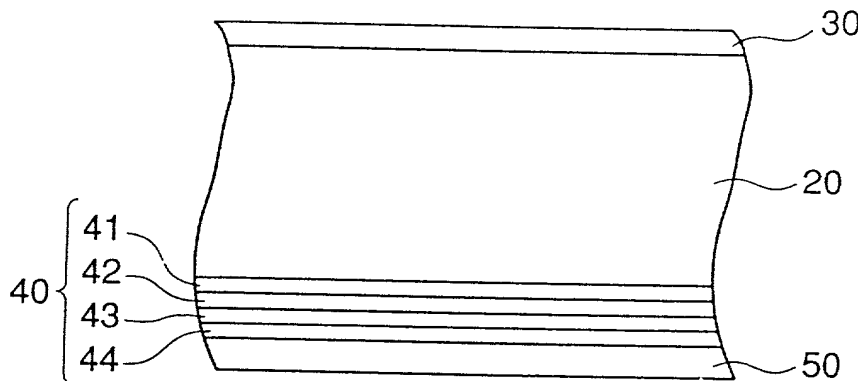


FIG. 2 (a)

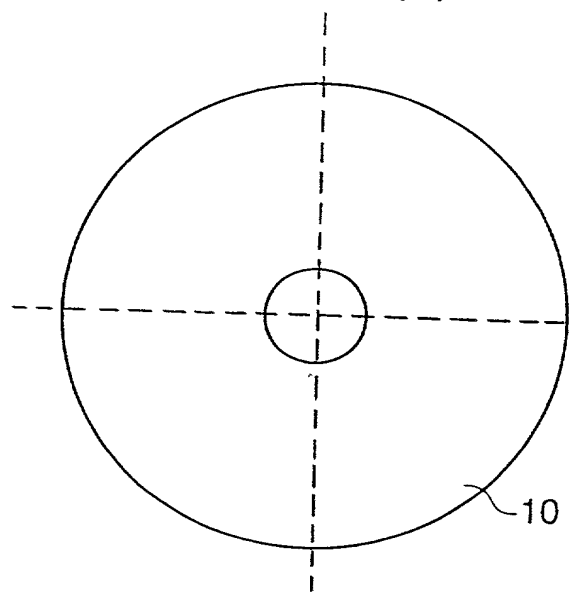
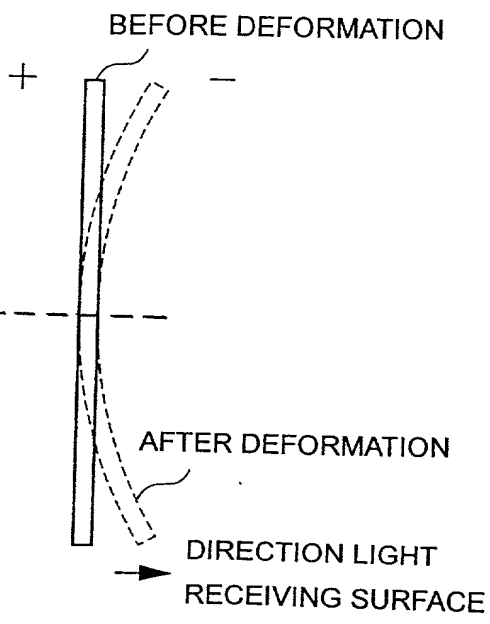


FIG. 2 (b)



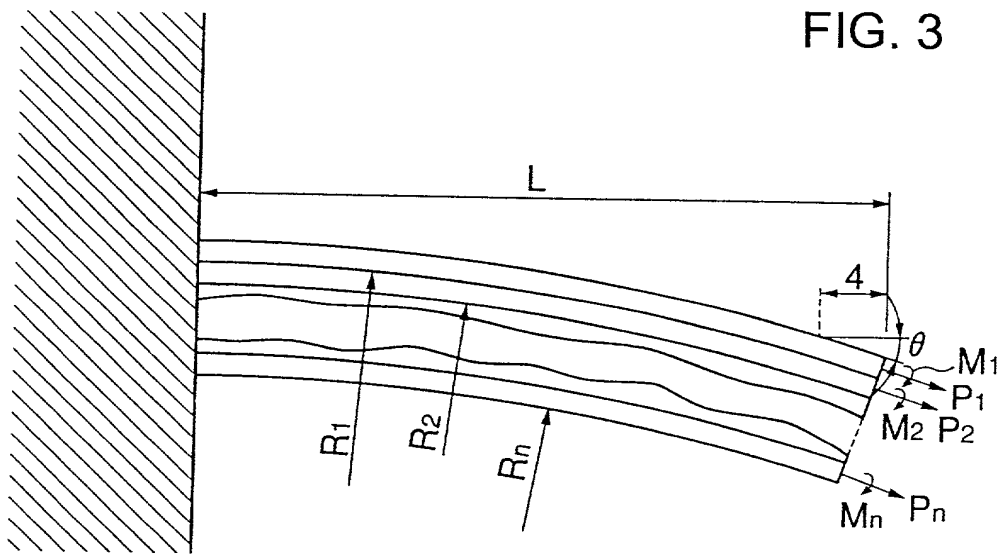


FIG. 3

FIG. 4 PRIOR ART

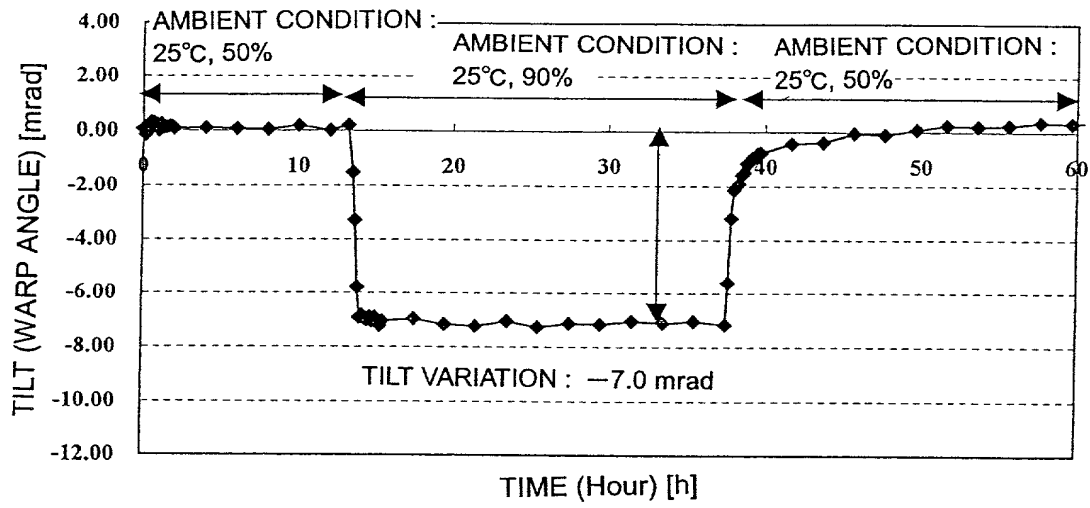


FIG. 5

EXAMPLE 1

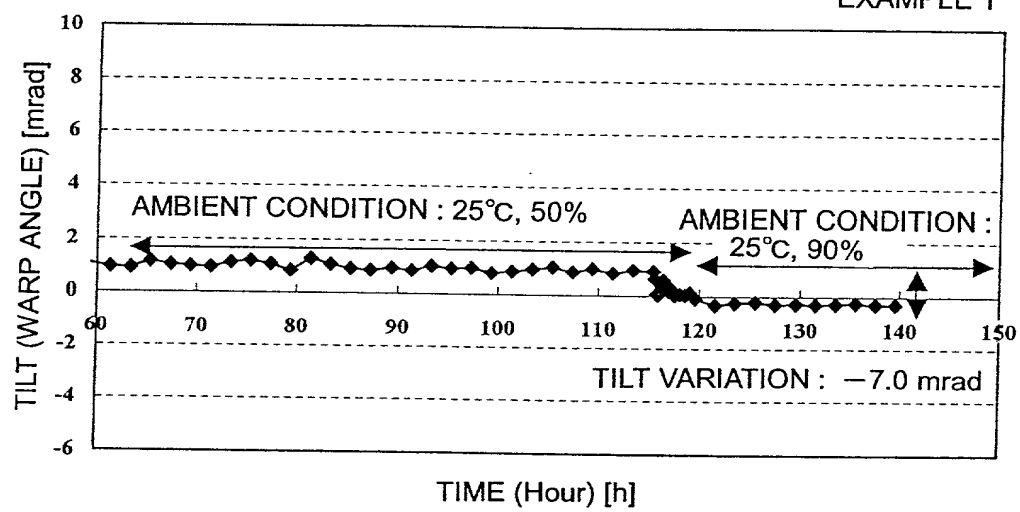


FIG. 6

EXAMPLE 2

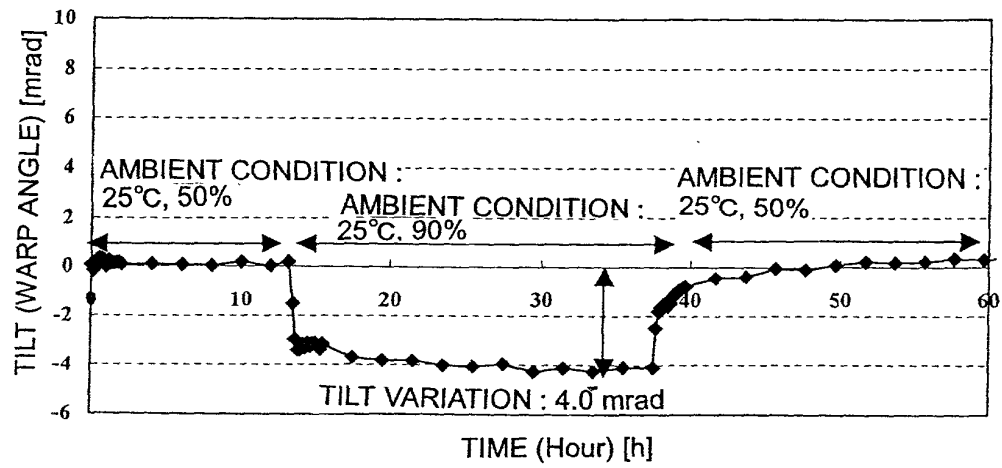


FIG. 7

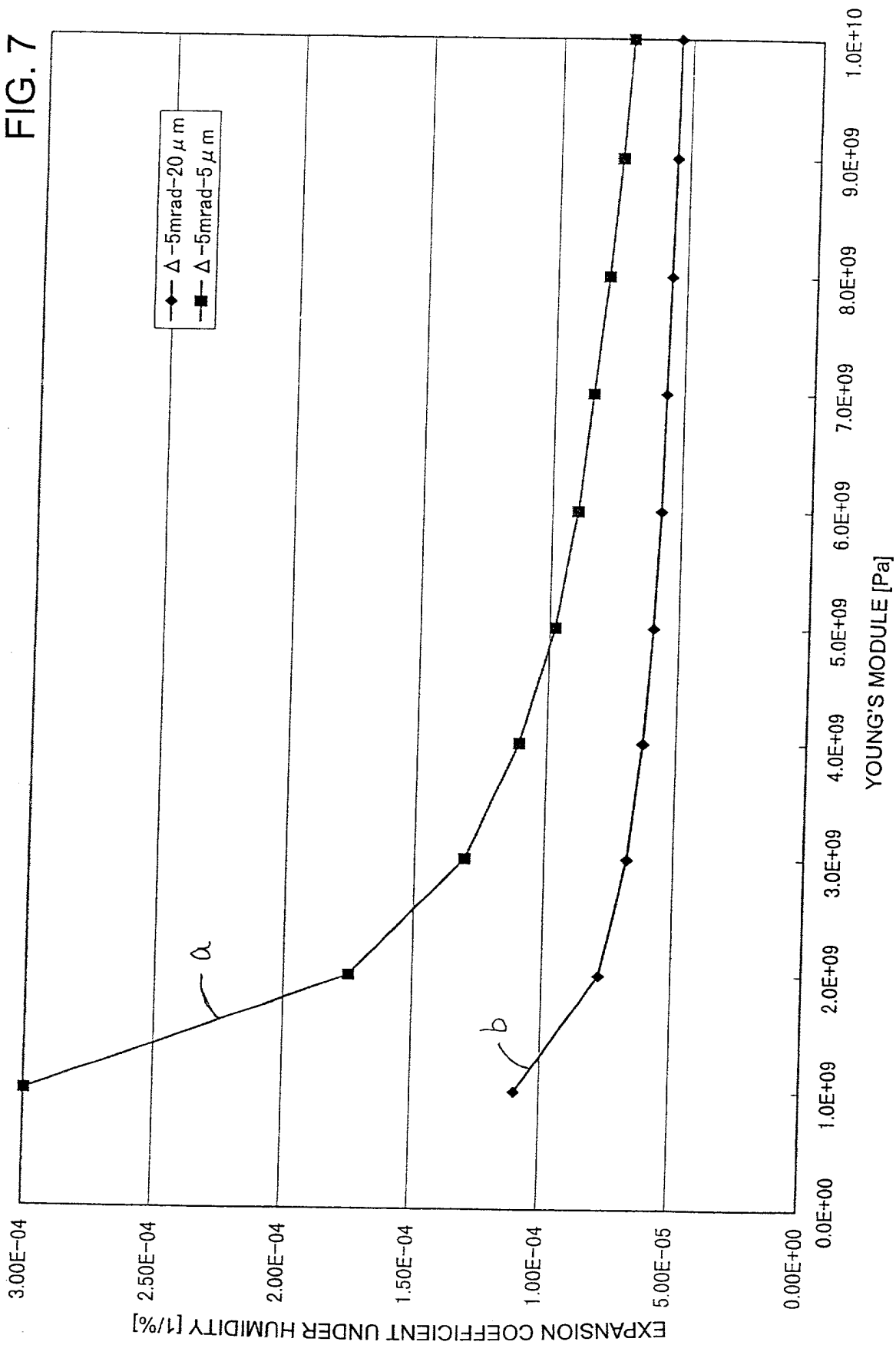


FIG. 8 (a)
PRIOR ART

FIG. 8 (b)
PRIOR ART

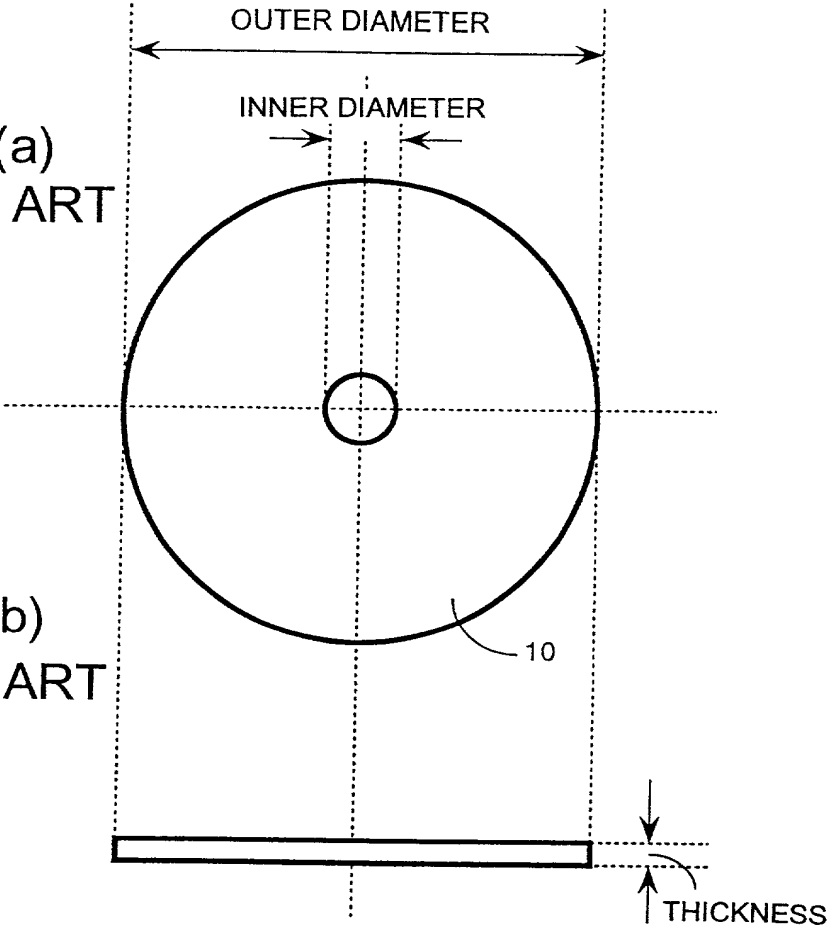


FIG. 9 PRIOR ART

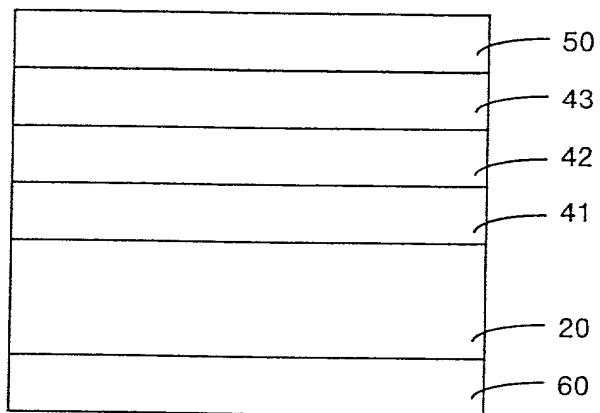


FIG. 10 PRIOR ART

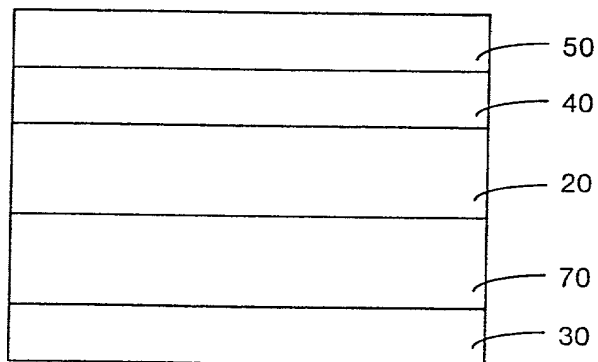


FIG. 11

EXAMPLE 1	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 1	16µm	5.40E+09	1.60E-05

FIG. 12 PRIOR ART

COMPARATIVE EXAMPLE 1	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 2	16µm	5.40E+09	6.25E-05

FIG. 13

EXAMPLE 2

	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E−06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 3	16μm	9.00E+09	6.25E−05